WEATHER BUREAU

MONTHLY WEATHER MAP

METEOROLOGICAL SERVICE, DOMINION OF CANADA

OCTOBER 1930

TEMPERATURE

From the beginning of the month to the thirteenth, the weather of the Dominion was dominated by a cold front of moderate intensity in the far northeast, while pressure was generally low over the Arctic Archipelago. From the thirteenth to the close of the month a cold front in the far northwest, of more than normal seasonal intensity, was active while at the same time the northeast cold front did not altogether disappear. The result of this general circulation was a lowering of the mean temperature of the month below the normal October value in the Yukon, British Columbia, Alberta, Saskatchewan, Manitoba, and the northwestern portion of the Hudson Bay region. In the east, however, temperatures averaged generally above normal. The period from the ninth to the sixteenth was exceptionally warm in many eastern districts. The fourth, twenty-first and twenty-fifth or twenty-sixth were days of sharp frosts in Ontario.

In the West temperatures averaged three to six degrees below normal over the spring wheat region. In the East temperatures generally ranged from normal to six degrees above normal.

PRECIPITATION

Precipitation was generally well above normal from Lake Superior to the Pacific Ocean except in the far northwest. From Lake Superior and the Abitibi river south and east to the Bay of Fundy, precipitation was generally deficient. In Nova Scotia there was an excess over the normal amount except immediately along the coasts of the Bay of Fundy.

SNOW ON THE GROUND

In some parts of the West about six inches of snow lay on the ground at the end of October with deep drifts in places, but generally the ground was bare over the southern portion of the Dominion.

BRITISH COLUMBIA

From Kamloops north to Atlin mean temperatures were three to five degrees below normal while in southern districts the deficiency was only one or two degrees. Precipitation was generally either normal in amount or in excess Snow fell in some parts of Vancouver Island and of the lower Fraser Valley and of adjoining regions on the sixteenth or seventeenth. From one to ten inches of snow fell in the southern interior but precipitation was generally rainfall. Sharp frosts did little damage to the apple crop.

ALBERTA, SASKATCHEWAN and MANITOBA

Prior to the advance of the northwest cold front on the thirteenth, there were frequent rains which were fairly heavy in Manitoba. A blizzard moved across the prairies from the thirteenth to the seventeenth in advance of the moving cold front. More favourable weather towards the end of the month allowed grain in the field to dry sufficiently for threshing in most districts. Some lowering of the quality is reported.

ONTARIO

The month was generally rather dry. Most of the area from the eastern shores of Lake Superior east to the St. Lawrence, reported deficiencies of twenty to sixty per cent of the normal amount. Mean temperatures ranged from normal to four degrees above. A stormy day or two with driving snow was reported in some districts about the eighteenth to twentieth but did not remain long upon the ground.

QUEBEC

There were sharp frosts about the third or fourth, the twentieth to twenty-second and at the close of the month. Rains occurred about the fifteenth, rain and snow twentieth to twenty-third, and light rains during the last week. The total amount of precipitation was considerably below normal in all districts.

Mean temperatures were generally two to four degrees above normal, a few districts six above.

ATLANTIC PROVINCES

Before the middle of the month unusually warm weather prevailed, with new high records for October in many districts. The latter part of the month was considerably cooler. Mean temperatures ranged from one to four degrees above normal except locally in the neighbourhood of the Basin of Minas.

Heavy rains occurred in Nova Scotia towards the end of the month, relieving the serious drought of the last few months. Precipitation totalled from normal to seventy per cent in excess in Nova Scotia except along the Bay of Fundy. In New Brunswick and Prince Edward Island rainfall was ten to eighty per cent in defect. Forest fires were prevalent during the early part of the month. Rain is badly needed.

HUDSON STRAIT

Along the Strait mean temperatures were two to four degrees above normal. At Chesterfield on the northwest shore of Hudson Bay the temperature was three degrees below normal but two degrees above at Churchill.

SPECIAL REPORTS

NOTE—Column H is Highest Temperature; Column L is Lowest Temperature; Column P is Precipitation in inches; Column I denotes total of bright sunshine in hours during the month. Column Sg denotes depth of snow on ground in inches, where given.

BRITISH COLUMBIA

STATION	H	L	P	I	STATION	H	L	P	I	STATION	H	L	P	I
Victoria	61°	36°	4.8	128	Chilliwack	67°	27°	6.9		Grand Forks	80°	22°	1.9	
Sidney	61°	35°	5.1	121	New Westminster	65°	31°	7.6		Cranbrook	68°	15°	1.6	
Goldstream Lake			7.6		White Rock	67°	30°	6.8		Glacier	65°	12°	4.2	
Sooke	67°	29°	6.4		Agassiz	70°	29°	5.8	101	Revelstoke	70°	28°	3.5	
Duncan	70°	26°	3.9		Salmon Arm	72°	25°	2.9	85	Golden	72°	7°	2.0	
Nanaimo	65°	34°	4.2	88	Vernon	69°	25°	1.7	83	Kamloops	69°	27°	1.0	111
Courtenay			4.5		Trail	73°	22°	1.7		Prince George	74°	14°	2.0	
Vancouver	64°	30°	7.5	126	Greenwood	61°	16°	1.3		Prince Rupert	60°	30°	11.7	

ALBERTA, SASKATCHEWAN AND MANITOBA

STATION	H	L	P	I	Sg.	SPECIAL REPORTS
Beaver Lodge	78°	9°	1.7	127		Six days of freezing weather, 14th to 20th, followed several days of rain. During the last week warmer dry winds dried the wheat in the fields permitting threshing which is now almost complete.
Edmonton	75°	−8°	0.7	149		Cold weather with snow 8th to 21st. Last week mild with threshing practically completed. The snowfall has lowered the quality of the grain to some extent.
Calgary	71°	6°	0.8	172		
Medicine Hat	71°	6°	1.8	151		Soil moist and in good condition.
Battleford	74°	0°	1.9		6	Threshing seriously delayed by blizzard of 16th but is now in progress. Quality of samples considerably reduced. Roads very bad since the storm.
Scott	69°	−6°	1.1	137		
Prince Albert	71°	−2°	2.0		6	Six inches of snow on ground and roads are in poor condition with deep snowdrifts in some places. Seventy per cent of crops in stook. Threshing difficult with small prospect of being completed this year.
Swift Current	70°	5°	1.0	156		A very fine month except for snowstorm on 15th and 16th.
Moose Jaw	67°	5°	1.4	140		
Qu'Appelle	62°	10°	1.3	114		October was considerably cooler than average with severe snowstorm on 15th and 16th. Threshing completed first week of October.
Le Pas	70°	3°	1.8			
Minnedosa	64°	7°	2.0			Grains grading well. Considerable amount of ploughing completed. Cattle not plentiful.
Winnipeg	60°	16°	3.0	91		
Treesbank	64°	10°	2.0			Assiniboine River frozen over on 17th. Ice all gone by 26th and about half covered by floating ice on 31st. Live stock doing well.
Oak Bank	66°	14°	2.5			Frost of the 21st delayed ploughing.
Morden	63°	11°	1.8			Ground frozen and ploughing stopped.
Morden(Exp.Farm)	63°	9°	2.1			
Dauphin	74°	10°	1.8			
Pierson	66°	6°	1.0			
Russell	65°	5°	1.5			
Virden	66°	7°	1.9			

ONTARIO

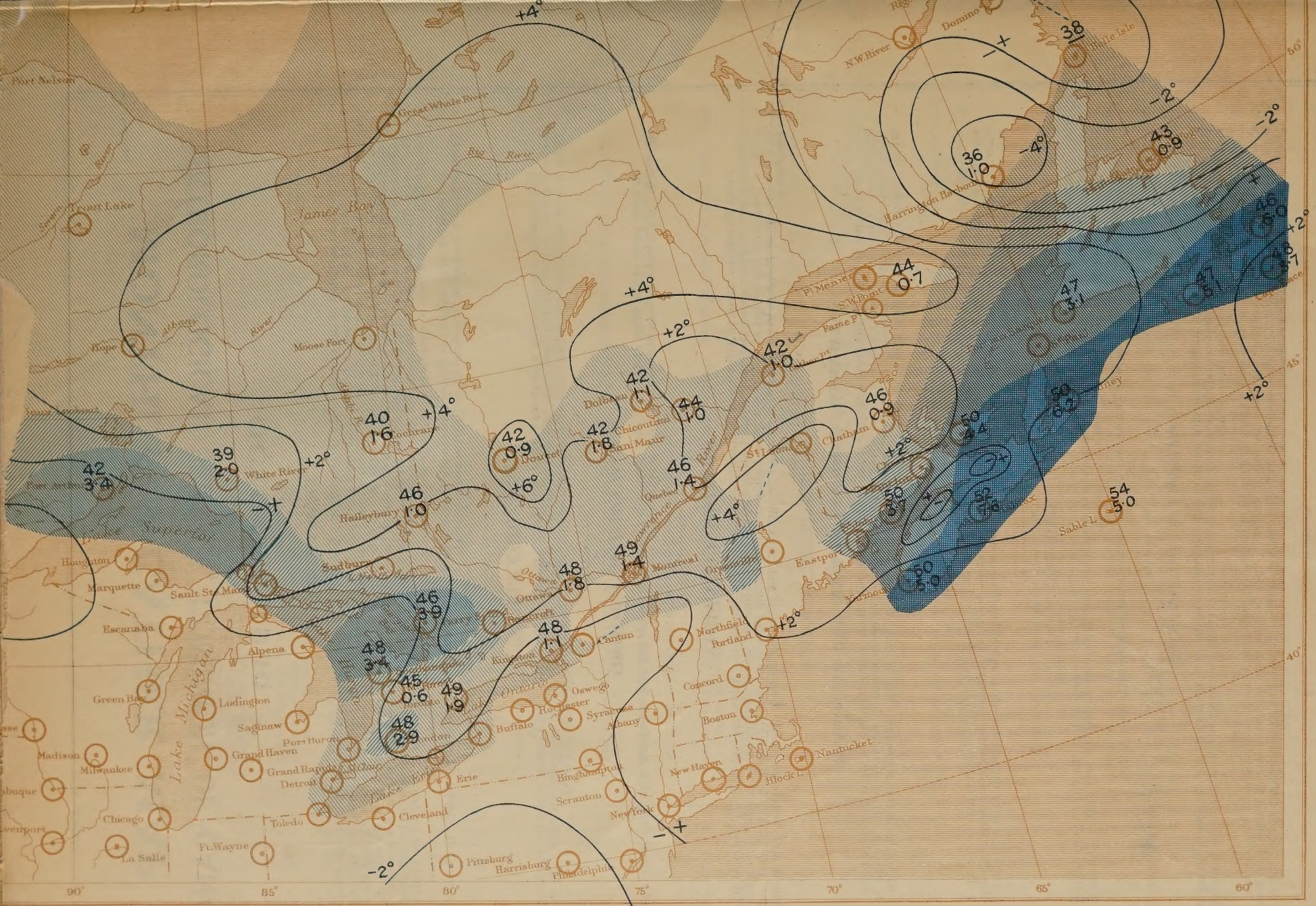
Kenora	74°	12°	1.8		0	
Quorn	81°	10°	2.3		1	
Port Arthur	70°	20°	3.4		0	All crops harvested and of high quality. Rivers and lakes at about average level.
Kapuskasing	80°	9°	1.8	84	0	
Cochrane	80°	12°	1.6		T	
Haileybury	79°	17°	1.0		T	
Parry Sound	75°	24°	3.9		0	First snowstorm October 18th. The late root crops have been good.
Scotia Junction	76°	20°	3.4		0	All crops now harvested
Huntsville	83°	22°	4.2		0	Heavy snowfall of 30 inches on 19th and 20th.
Beatrice	76°	18°	3.7		0	
Mount Forest	83°	19°	0.9		0	First snow on the 18th. Ground is now in better condition for ploughing. Late turnips and other roots now being harvested.
Alton	80°	18°	1.4		0	
Walkerton	89°	29°	1.2		0	The snowfalls of the 18th and 19th left enough moisture in the ground for fall ploughing. Late apples picked without frost damage.
Brucefield	74°	24°	1.1		0	Roots have been a light crop. The ground is very dry and hard to plough.
Stratford	80°	22°	2.7		0	
Woodstock	76°	21°	1.4	146	0	Ground is very dry and not much wheat has been sown, but fall ploughing is now in progress following the late rains
London	79°	21°	2.9		0	Fall wheat is in fine condition and improved by recent rainfalls.
Harrow	76°	24°	1.3		0	
Simcoe	80°	19°	1.6		0	Fall wheat and rye look well. Splendid weather for ploughing.
Paris	79°	22°	1.1		0	
Barrie	72°	24°	2.1		0	
Washago			2.3		0	
Peterboro'	80°	20°	1.0		0	
Queensboro'	76°	18°	0.6		0	Ploughing difficult on account of very dry weather.
Bloomfield	80°	18°	1.4		0	
Toronto	75°	27°	1.9	144	0	
Kingston	72°	29°	1.1	149	0	Very dry month with rain badly needed.
Brockville	80°	30°	0.4		0	Ploughing very difficult on account of lack of rain. Corn is better than at first estimated.
Morrisburg	81°	23°	0.6		0	
Ottawa	82°	25°	1.8		0	
Ottawa(Exp.Farm)	83°	23°	1.2	158	0	Fall ploughing practically complete.
Renfrew	77°	26°	1.4		0	Ground very dry and hard to plough. Very foggy and misty month.
Pembroke	82°	24°	0.8		0	Fall ploughing practically complete.
Clontarf	87°	19°	0.9		0	

QUEBEC

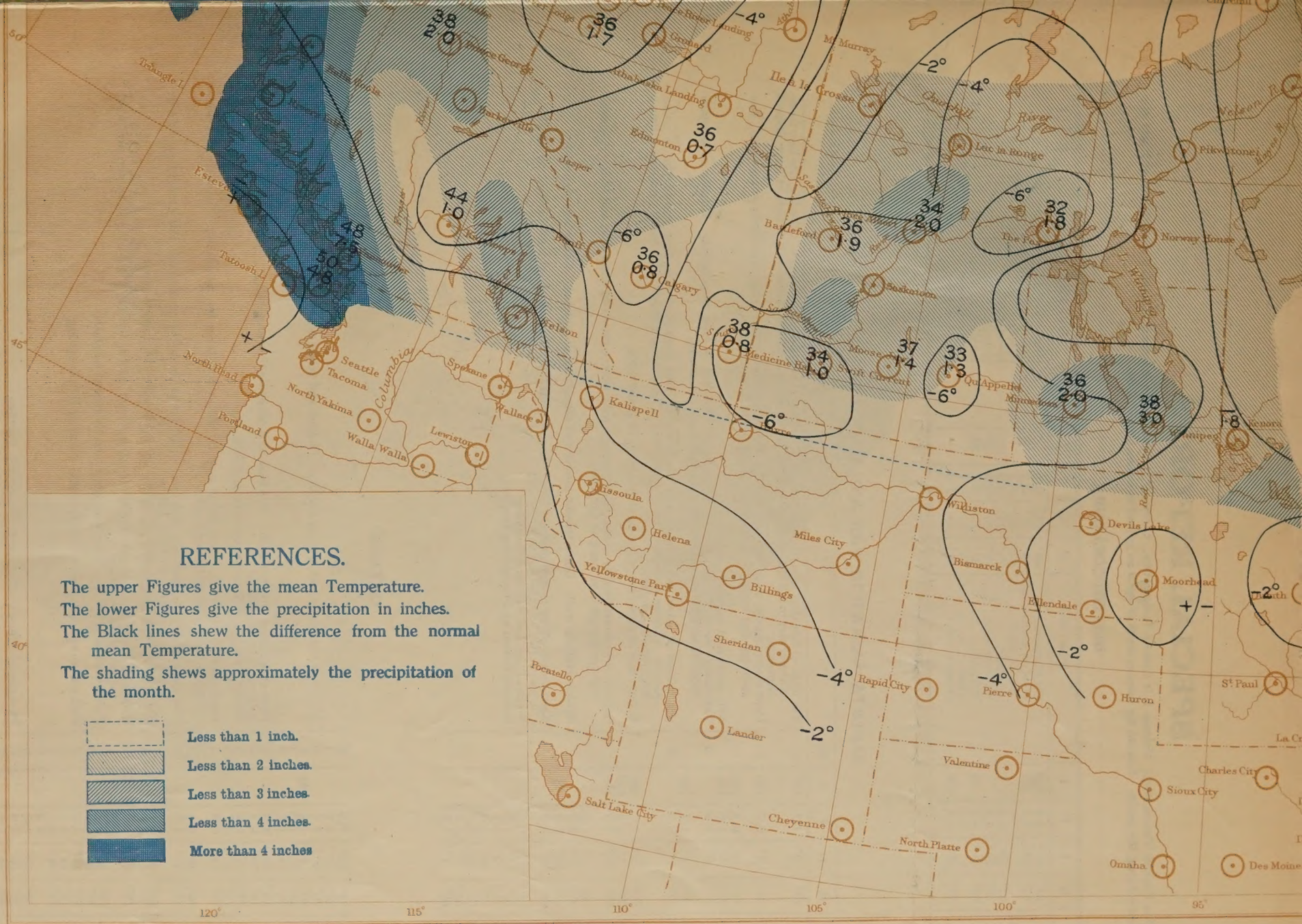
STATION	H	L	P	I	Sg.	SPECIAL REPORTS
Cedars	78°	28°	0.8		0	First ice October 19th. Heavy fog on 9th and 10th.
Macdonald College	80°	27°	0.8		0	All crops in good condition but rain needed to facilitate ploughing.
Montréal	77°	31°	1.4	127	0	
Farnham	80°	20°	1.7	132	0	Ploughing in progress.
Brome	76°	20°	2.1		0	
Nicolet	80°	23°	1.3		0	Light snowfall on the 20th.
Sorel	81°	23°	1.0		0	Ploughing in progress. Light snow on 20th.
Lennoxville	82°	21°	1.4	152	0	Crops all harvested with no damage from frost. The three months, August, September, and October have been dryer than in 16 years previously.
					0	
Sherbrooke	78°	25°	1.3	145	0	
Drummondville	80°	23°	1.3		0	First light snow on 19th and 20th.
Beauceville	81°	24°	1.1		0	Soil is very dry, only three and a half inches of rain having fallen in the last three months
Lake Mégantic	72°	23°	2.1		0	Ploughing in progress.
Québec	74°	28°	1.4	136	0	
St. Joachim	74°	23°	1.6		0	A few flakes of snow on 19th.
Armagh	80°	22°	0.8		0	
Causapscal	80°	19°	0.2		0	
Roberval	...	39°	0.6		0	Crops have all been below average. Potatoes are suffering from rot.
Albanel	82°	24°	1.0	128	0	
Joliette	79°	21°	1.1		0	Ploughing well advanced. Cattle still on the pasture. Tobacco crop has been very good.
Huberdeau	82°	20°	1.3		0	The dry weather of the month has been favourable for ploughing.
St. Lin des Laurentides	78°	19°	0.6		0	
Maniwaki	81°	22°	1.6		0	
St. Gabriel de Brandon	70°	14°	1.6		0	
Manouan	78°	20°	1.1		0	
Lake Kempt	76°	6°	1.5		0	

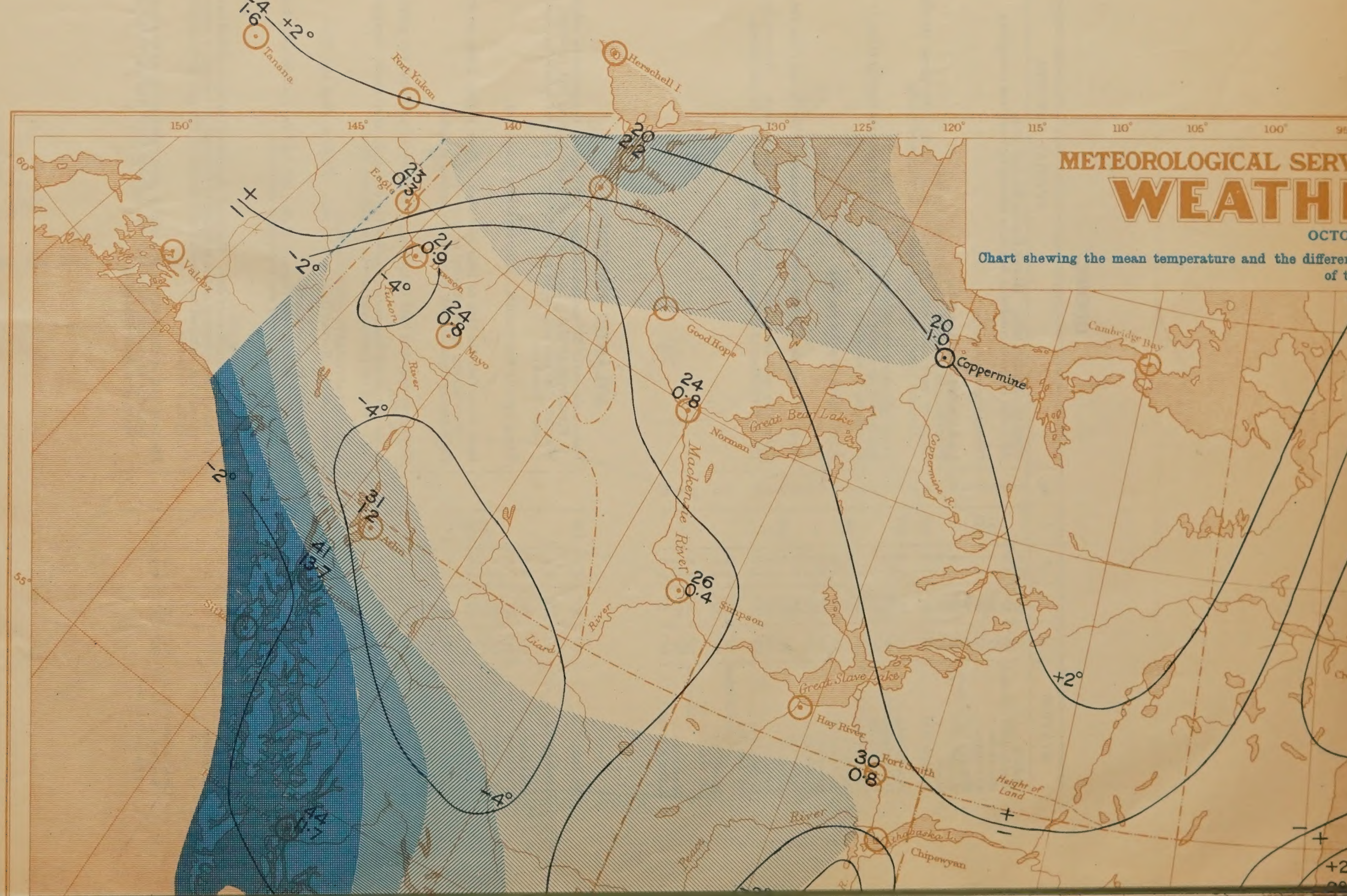
ATLANTIC PROVINCES

St. John	84°	30°	3.7	146		The maximum of 84° on the 13th was the highest temperature recorded in October in 57 years. First frost on 21st. Local pulp mill shut down by lack of water.
Aroostook	85°	22°	1.1			Weather exceptionally mild and very dry. All root crops harvested. Many wells and springs have dried up.
Bathurst	85°	24°	0.5			
Chatham	84°	23°	0.9			Exceptionally fine month. All harvesting completed.
Edmundston	79°	23°	0.9			
Fredericton	84°	20°	2.0	144		
Fredericton (Experimental Farm)	84°	20°	1.8	139		Heat wave October 11th to 15th inclusive. First killing frost on 20th. Ploughing difficult and wells drying up on account of dry weather.
Gagetown	83°	27°	1.9			First killing frost on 20th followed by milder weather.
Harvey	83°	24°	2.7			
Musquash	86°	18°	3.5			
McAdam	86°	23°	2.8			No rain during first half of month. Very hot period about the middle of the month. First snow on 20th.
Rexton	86°	26°	2.3			All garden truck harvested, harvesting of turnip crop about completed. Ice half an inch thick formed on ponds and creeks on 21st and 22nd.
Sussex	85°	18°	2.1			
Woodstock	86°	21°	1.1			All crops harvested in good condition.
Digby	76°	27°	3.2			Country still suffering from lack of rain. Frost on 22nd and 23rd.
Kentville	83°	25°	3.3	99		
Liverpool	86°	21°	7.1			First killing frost on the 21st.
Nappan	80°	20°	4.5	125		First half of month very fine and warm, last half very unsettled. Fall work well advanced, good yield of roots being stored in good condition.
Sydney	77°	28°	6.2			
Truro	74°	18°	4.5			
Upper Stewiacke	85°	15°	4.5			Ploughing in progress.
Wolfville	83°	28°	3.9	114		First half of month very dry. Rains of the last week have ended the drought.
Yarmouth	71°	31°	5.0			The heavy precipitation of the last half of October has ended a serious shortage of water Fall ploughing, delayed on account of drought of the past seven months, has only recently begun. Potato crop fair.
Charlottetown	82°	33°	3.3			
Charlottetown Experimental Farm)	80°	31°	4.4	131		The first half of October was dry with a good rainfall during the last two weeks. Potatoes above average, harvested clean and dry. Roots about half harvested, yield above average. Cattle stabled in good condition


+4°
+2°
-2°
-4°
+6°
42 3·4
39 2·0
40 1·6
42 0·9
42 1·8
42 1·1
44 1·0
46 1·0
46 1·4
42 1·0
44 0·7
46 0·9
47 3·1
43 0·9
36 1·0
38
46 6·0
50 6·2
50 4·4
50 5·7
52 5·6
54 5·0
50 5·0
49 1·4
48 1·8
46 3·9
48 3·4
48 1·1
45 0·6
49 1·9
48 2·9
Lake Michigan
James Bay
Hudson Bay
Sault St. Marie
Escanaba
Alpena
Ludington
Saginaw
Grand Haven
Detroit
Port Huron
Toledo
Cleveland
Erie
Buffalo
Oswego
Rochester
Syracuse
Albany
Boston
Concord
Portland
Northfield
Canton
Montreal
Ottawa
Sudbury
Chicago
Milwaukee
Madison
Green Bay
La Salle
Ft. Wayne
Pittsburg
Harrisburg
Philadelphia
Scranton
New York
New Haven
Block I.
Nantucket
Sable I.
Eastport
Chatham
Dalhousie
Chicoutimi
Roberval
Moose Fort
Hope Bay
Port Nelson
Great Whale River
Fort Lake
Harrington Harbour
Pt. Menier
Fame Pt.
N.W. River
Domino
White River
Halleybury
90°
85°
80°
75°
70°
65°
60°
50°
45°
40°

CE, DOMINION OF CANADA.
R MAP
R 1930
from normal mean temperature; also total precipitation
month.
Ellesmere Island
Pond's Inlet
Godhavn
Angmagssalik
Godthaab
Julianehaab
Pangnirtung
Nottingham I.
Cape Wolstenholme
Wakeham B.
Port Burwell
Nain
HUDSON'S
-2°
+
−
+2°
+4°
21
0·4
24
0·7
29
25
30
0·5
27
27
29
33


REFERENCES.
The upper Figures give the mean Temperature.
The lower Figures give the precipitation in inches.
The Black lines shew the difference from the normal mean Temperature.
The shading shews approximately the precipitation of the month.
Less than 1 inch.
Less than 2 inches.
Less than 3 inches.
Less than 4 inches.
More than 4 inches
Seattle
Tacoma
North Yakima
Portland
Walla Walla
Lewiston
Spokane
Columbia
Kalispell
Missoula
Helena
Billings
Miles City
Yellowstone Park
Sheridan
Rapid City
Pierre
Huron
Bismarck
Devils Lake
Moorhead
Ellendale
Valentine
Sioux City
Omaha
Cheyenne
North Platte
Salt Lake City
Lander
Pocatello
Calgary
Edmonton
Medicine Hat
Swift Current
Saskatoon
Battleford
Lac la Biche
Fort McMurray
Peace River
Jasper
Nelson
Triangle
Fort George
Dunvegan
Grande Prairie
Lac la Biche
Lac la Ronge
Norway House
Pilot Mound
Winnipeg
Qu'Appelle
Minnedosa
Regina
Prince Albert
Battleford
Fort Vermilion
Fort Simpson
Fort Liard
Fort Nelson
Turnagain
Stewart
Telegraph Creek
Hazelton
Port Simpson
Tatoosh I.
North Head
120°
115°
110°
105°
100°
95°
45°
40°


METEOROLOGICAL SERV
WEATHE
OCTOB
Chart shewing the mean temperature and the differenc
of the
Tanana
Fort Yukon
Herschell I.
Valdez
Eagle
Dawson
Yukon
Mayo
Good Hope
Coppermine
Cambridge Bay
Great Bear Lake
Norman
Mackenzie River
Simpson
Liard
Great Slave Lake
Hay River
Fort Smith
Height of Land
Chipewyan
Coppermine R.
+2°
-2°
-4°
24
1·6
23
0·3
21
0·9
24
0·8
20
2·2
20
1·0
24
0·8
26
0·4
31
1·2
41
13·7
44
4·7
30
0·8